EZ Switch 10/100

24/16-Port Fast Ethernet Switch

- 24/16 auto-MDI/X ports—connect to PCs or other switches or hubs
- Optional fiber uplink for easy network expansion
- Plug and play—nothing to configure, no crossover cables required
- Auto-negotiation of speed and duplex mode
- Full-duplex support on all ports
- Half and full-duplex flow control
- Desktop and rack mountable

SMC® Networks

User Guide

SMC-EZ1024FDT
SMC-EZ1016FDT

EZ Switch 10/100
User Guide

From SMC's EZ line of low-cost workgroup LAN solutions

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Networks
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Irvine, CA 92618
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* SMC will provide warranty service for one year following discontinuance from the active SMC price list. Under the limited lifetime warranty, internal and external power supplies, fans, and cables are covered by a standard one-year warranty from date of purchase.

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COMPLIANCES

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. Its operation in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EC Conformance Declaration - Class A

SMC contact for these products in Europe is:

SMC Networks Europe,
Edificio Conata II,
Calle Fructuós Gelabert 6-8, 2º, 4ª,
08970 - Sant Joan Despí,
Barcelona, Spain.

This information technology equipment complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE Mark accordingly. It conforms to the following specifications:

EMC:	EN55022 (1988)/CISPR-22 (1995) Class A	
	IEC 1000-4-2	4 kV CD, 8 kV AD
	IEC 1000-4-3 (1995)	3 V/m
	IEC 1000-4-4 (1995)	1.0 kV - (power line)
		0.5 kV - (signal line)
	IEC 1000-4-6 (1995)	3 Vrms
	IEC 1000-4-11 (1995)	Voltage drop

Industry Canada - Class A

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matérial brouilleur: "Appareils Numériques", NMB-003 édictée par l'Industrie.

Safety Compliance

CSA/NRTL (C22.2.950, UL 1950)

EN60950, (IEC 950)

Wichtige Sicherheitshinweise (Germany)

1. Bitte lesen Sie diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssigoder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung.
4. Die Netzanschlu ßsteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.
5. Das Gerät ist vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen.
7. Die Belüftungsöffnungen dienen der Luftzirkulation, die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
9. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
10. Alle Hinweise und Warnungen, die sich am Gerät befinden, sind zu beachten.
11. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
12. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
13. Öffnen sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.
14. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
    a. Netzkabel oder Netzstecker sind beschädigt.
    b. Flüssigkeit ist in das Gerät eingedrungen.
    c. Das Gerät war Feuchtigkeit ausgesetzt.
    d. Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
    e. Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
    f. Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
15. Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden. Für einen Nennstrom bis 6 A und einem Gerätegewicht größer 3 kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75 mm^2 einzusetzen.

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 Teil 1000 beträgt 70 dB(A) oder weniger.

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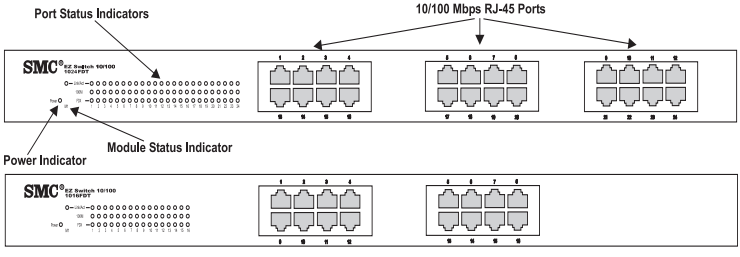
ABOUT THE EZ SWITCH 10/100

The EZ Switch 10/100 SMC-EZ1024FDT and SMC-EZ1016FDT are 24/16-port Fast Ethernet switches. They have one slot on the rear panel for a fiber optic uplink module with one 100BASE-FX (SC, ST, MTRJ or VF-45) type port. The 10BASE-T/100BASE-TX ports deliver dedicated 10/100 Mbps links to each attached LAN segment. Each port on each switch supports automatic MDI/MDI-X detection. This means that you can use either straight-through or crossover cables to connect to any other network device.

Auto-negotiation is used to select the optimal transmission speed and communication mode for each connection. With store-and-forward switching and flow control, maximum data integrity is always maintained, even under heavy loading. Easy installation and reliability make these plug-and-play switches an ideal choice for smooth Fast Ethernet integration.

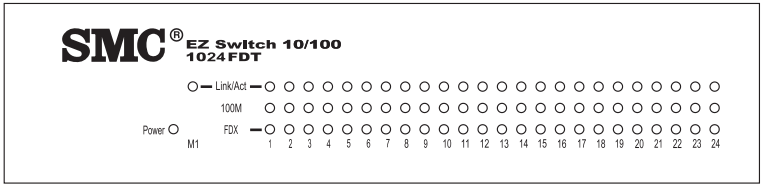


Features and Benefits

- Auto configuration for MDI/MDI-X cable connection allows connections to servers, workstations, hubs or switches to be made with straight-through cabling
- Optional multimode and single-mode fiber uplink modules
- Auto-negotiation of half or full duplex on all ports
- IEEE 802.3 and 802.3u compliance ensures compatibility with standards-based hubs, switches and cards from any vendor
- Half and full-duplex flow control prevents packets from being dropped under heavy loading
- "At-a-glance" LEDs for port and system status monitoring
- Desktop and rack mountable

Front Panel LEDs

The front panel of the switch provides status LEDs for “at-a-glance” system monitoring. The following table details the functions of the various indicators:

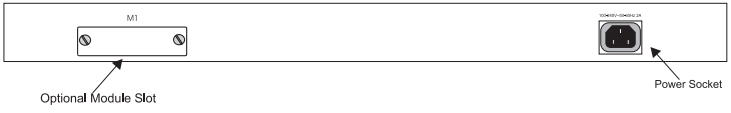


Port and System Status LEDs		
LED	**Condition**	**Status**
Power	On	The switch is receiving power.
RJ-45 Ports		
Link/ Act	On	The port has established a valid network connection.
	Flashing	Traffic is passing through the port.
	Off	The port has not established any network connection.
100M	On	Communications have been set to 100 Mbps.
	Off	Communications have been set to 10 Mbps.
FDX	On	The port is in full-duplex mode.
	Off	The port is in half-duplex mode.

Port and System Status LEDs		
LED	**Condition**	**Status**
Module Ports		
Link/ Act	On	The module has established a valid network connection.
	Flashing	Traffic is passing through the module.
	Off	The module has not established any network connection.
Note: All optional modules operate in full-duplex mode only.		

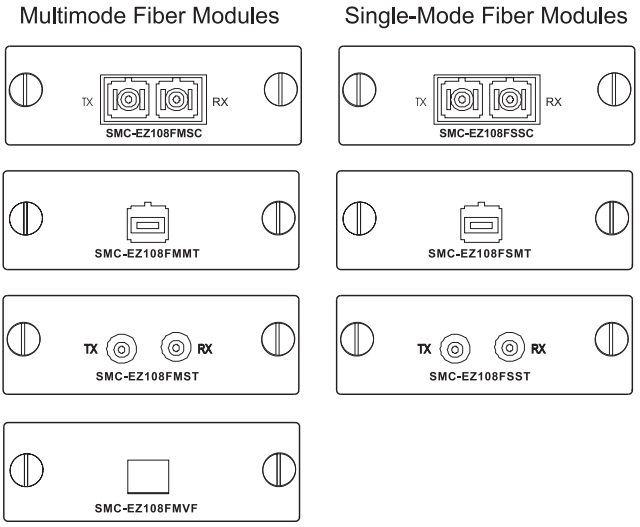
Rear Panel

The AC power receptacle is located on the rear panel of the switch.



Connecting to a Fiber Optic Port

The fiber modules are shown in the figure below.



When you connect fiber cable to a 100 Mbps module on the switch, be sure you use an SC, ST, MTRJ or VF-45 type connector, depending on the module. When inserting the cable, be sure the tab on the plug clicks into position to ensure that it is properly seated. For ST-type connections run cable from the Rx (Tx) port on the module to the Tx (Rx) port on the target device.

Note: If you need to connect from an SC connector to a device with 62.5/125 micron cable that has ST-type connectors, SMC provides an optional SC-ST Converter (Part Number: 99-012034-091).

The fiber module operates at 100 Mbps, full duplex, and supports 1EEE 802.3x flow control. The maximum length for 100BASE-FX fiber is as shown in the following table.

Fiber transceiver	**Optical Wavelength**	**Maximum Cable Length**
Multimode	1300 nm	2 km (1.24 miles)
Single-mode	1300 nm	20 km (12.43 miles)

INSTALLING THE SWITCH

The EZ Switch 10/100 can be placed on a desktop or shelf, or installed in a standard 19-inch equipment rack.

Equipment Checklist

After unpacking the EZ Switch 10/100, check the contents of the box to be sure you have received the following components:

- EZ Switch 10/100 SMC-EZ1024FDT or SMC-EZ1016FDT
- Appropriate AC power cable
- Rackmount kit
- Four adhesive foot pads
- SMC Warranty Registration Card
- This User Guide

Selecting a Site

Be sure to follow the site selection guidelines below when choosing a location:

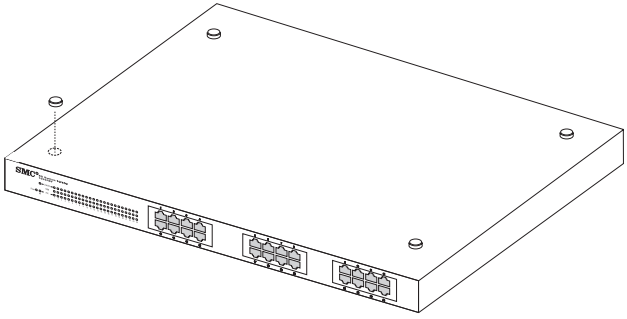
◆ Select a suitable location for the switch:

- It should be accessible for installing, cabling and maintaining the switch.
- The temperature and humidity should be within the ranges listed in the specifications.
- The status LEDs should be clearly visible.
- There should be adequate space (approximately two inches) on all sides for proper air flow.

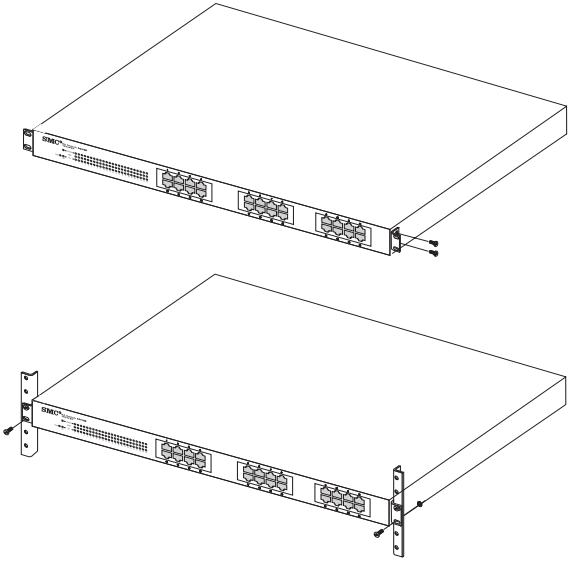
- Before rack mounting the switch, pay particular attention to the following factors:
  - **Temperature**: Since the temperature within a rack assembly may be higher than the ambient room temperature, check that the rack-environment temperature is within the specified operating temperature range.
  - **Mechanical Loading**: Do not place any equipment on top of a rack-mounted switch.
  - **Circuit Overloading**: Be sure that the supply circuit to the rack assembly is not overloaded.
  - **Grounding**: Rack-mounted equipment should be properly grounded. Particular attention should be given to supply connections other than direct connections to the mains.
- Make sure twisted-pair cable is always routed away from power lines, fluorescent lighting fixtures and other sources of electrical interference such as radios and transmitters.
- Make sure that a properly grounded power outlet is within 8 feet (2.44 meters) of the switch and is powered from an independent circuit breaker. As with any equipment, using a filter or surge suppressor is recommended.

Instructions

1. **Positioning the Switch:** For desktop or shelf mounting, attach the four adhesive feet to the bottom of the switch.



For rack-mounting, attach the mounting brackets on both sides of the switch with the screws provided, and install the switch in the rack.



2. **Applying Power:** Plug one end of the power cable into the power receptacle at the back of the switch, and the other end into an appropriate electrical outlet. Check the Power LED to be sure power is on.

   Note: It is not necessary to power off the switch before connecting or disconnecting any UTP cables, as these actions *will not* disrupt the operation of other devices attached to the switch.

3. **Connecting PCs:** For twisted-pair devices, connect each PC to an RJ-45 port on the switch with a twisted-pair cable segment, maximum 100 meters (328 feet). Use Category 3, 4, or 5 cable for 10 Mbps connections, and Category 5 cable for all these 100 Mbps connections.

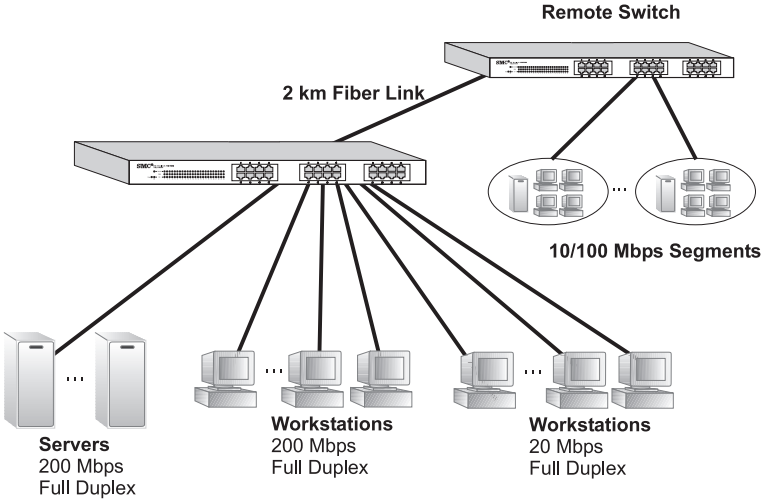
   Note: If an attached device does not support Auto-negotiation, the data rate will be sensed automatically and the communication mode will default to half duplex.

4. **Connecting to a Fiber Module:** For fiber optic connections, use 50/125 or 62.5/125 micron multimode fiber optic cable or 9/125 micron single-mode fiber optic cable. If you need to connect a cable with ST-type plugs to a device with SC-type connectors, SMC provides an optional SC-ST converter (Part Number: 99-012034-091).Be sure to connect the converter's TX (Rx) port to the Rx (Tx) port on the other device. See the "Cable Specifications" and "Connectivity Guidelines" sections of this guide for further information.

5. **Cascading Switches and Other Network Devices:** All the ports on the switch support automatic MDI/MDI-X configuration for cable connections. This allows you to use straight-through cable to connect to other switches or hubs from any port on the switch. No crossover cables or other device settings are needed.

Sample Applications

In the figure below, the EZSwitch 10/100 is operating as a collapsed backbone for a small LAN. It is providing dedicated 20 Mbps full-duplex connections to workstations and 200 Mbps full-duplex connections to power users and servers.



TROUBLESHOOTING

1. **Symptom**
   Power LED does not light after power on.

   Probable Causes
   Power outlet or power cord may be defective.

   Possible Solutions
   - Check for loose connections.
   - Check the power outlet by using it for another device.
   - Replace the power cord.

2. **Symptom**
   Link LED does not light after connection is made.

   Probable Causes
   Switch port, network card or cable may be defective.

   Possible Solutions
   - Check that the switch and attached device are both powered on.
   - Be sure the network cable is connected to both devices.
   - Verify that Category 5 cable is used for 100 Mbps connections and that the length of any cable does not exceed 100 meters (328 feet).
   - Check the network card and cable connections for defects.
   - Replace the defective card or cable if necessary.
   - For ST-type fiber module connections, ensure that the transmit (Tx) port is connected to the receive port on the other device.

CABLES

CABLE SPECIFICATION

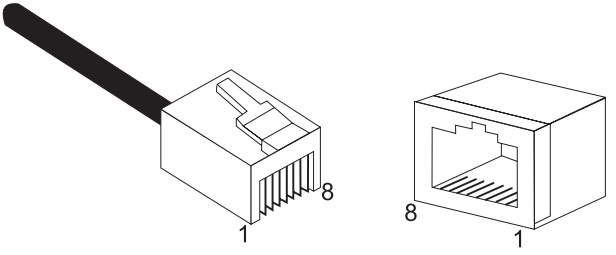
Cable Types and Specifications			
Cable	**Type**	**Max. Length**	**Connector**
10BASE-T	Cat. 3, 4, 5 100-ohm UTP	100 m (328 ft)	RJ-45
100BASE-TX	Cat. 5 100-ohm UTP	100 m (328 ft)	RJ-45
100BASE-FX	50/125 or 62.5/125 micron multimode fiber optic cable	2 km (1.24 miles)	SC, ST, MTRJ or VF-45
100BASE-FX	9/125 micron single-mode fiber optic cable	20 km (12.43 miles)	SC, ST or MTRJ

Note: If you need to connect from an SC connector to a device with 62.5/125 micron cable that has ST-type connectors, SMC provides an optional SC-ST Converter (Part Number: 99-012034-091).

RJ-45 Connector Pin Assignments

Caution: **DO NOT** plug a phone jack connector into any RJ-45 port. Use only twisted-pair cables with RJ-45 connectors that conform with FCC standards.

An Ethernet or Fast Ethernet twisted-pair link segment requires two pairs of wires. Each wire pair is identified by two different colors. Each wire pair must be attached to the RJ-45 connector in a specific orientation detailed below.



Because all ports on this switch support automatic MDI/MDI-X operation, you can use straight-through cables for all network connections to PCs or servers, or to other switches or hubs.

RJ-45 Pin Assignments Straight-Through Cable	
End 1	**End 2**
1 (Tx+)	1 (Tx+)
2 (Tx-)	2 (Tx-)
3 (Rx+)	3 (Rx+)
6 (Rx-)	6 (Rx-)

RJ-45 Pin Assignments Crossover Cable	
End 1	**End 2**
1 (Tx+)	3 (Rx+)
2 (Tx-)	6 (Rx-)
3 (Rx+)	1 (Tx+)
6 (Rx-)	2 (Tx-)

SPECIFICATIONS

EZ SWITCH 10/100

Models
SMC-EZ1024FDT
SMC-EZ1016FDT

Ports
SMC-EZ1024FDT - 24 RJ-45 ports
SMC-EZ1016FDT - 16 RJ-45 ports

Network Interface
RJ-45: 100 ohm, UTP cable
10BASE-T - Categories 3, 4, or 5
100BASE-TX - Category 5

LEDs
Power - one
Link/Act *(activity)* - one per port
100M - one per port
FDX *(full duplex)* - one per port

Switching Method
Store-and-forward

MAC Address Table
4K entries per system

Memory Buffer
768 KBytes per unit

Filtering/Forwarding/Learning Rates
Full line rate

Size
17.32 x 6.81 x 1.69 in.
(44.0 x 17.3 x 4.3 cm)

Weight
SMC-EZ1024FDT 5.3 lbs (2.3 kg)
SMC-EZ1016FDT 4.8 lbs (2.2 kg)

Temperature
Operating: 32 to 122 °F (0 to 50 °C)
Storage: -40 to 158 °F (-40 to 70 °C)

Humidity, non-condensing
5% to 95%

Power Requirements
Universal AC input; 100 to 240 VAC, 50 to 60 Hz

Power Consumption
40 Watts maximum

Heat Dissipation
137 BTU/hr maximum @100 - 240 VAC

Maximum Current
0.3 A @ 115 VAC
0.15 A @ 240 VAC

Standards
IEEE 802.3
IEEE 802.3u
IEEE 802.3x

EMC/Safety Compliances
CE Mark
FCC Class A
EN55022 (CISPR 22) Class A
IEC 1000-4-2/3/4/6
CSA/NRTL (C22.2.950, UL 1950)

TÜV/GS (EN60950)

Warranty
Limited Lifetime

Fiber Uplink Modules

Models
SMC-EZ108FMSC, SMC-EZ108FSSC, SMC-EZ108FMST, SMC-EZ108FSST, SMC-EZ108FMMT, SMC-EZ108FMMT, SMC-EZ108FMVF

Access Method
CSMA/CD

Communication Rate
100 Mbps

Communication Mode
Full and half duplex (via jumper setting)

Network Interface
SC, ST or MTRJ connector, 50/125 or 62.5/125 micron multimode fiber cable. 9/125 micron single mode fiber cable.
VH-45 connector, 50/125 or 62.5/125 micron multimode fiber cable.

Ports
SMC-EZ108FMSC: 1 100BASE-FX multimode SC-type port
SMC-EZ108FSSC: 1 100BASE-FX single-mode SC-type port
SMC-EZ108FMST: 1 100BASE-FX multimode ST-type port
SMC-EZ108FSST: 1 100BASE-FX single-mode ST-type port
SMC-EZ108FMMT : 1 100BASE-FX multimode MTRJ-type port
SMC-EZ108FSMT: 1 100BASE-FX single-mode MTRJ-type port
SMC-EZ108FMVF: 1 100BASE-FX VF-45-type port

Standards
802.3u

FOR TECHNICAL SUPPORT, CALL:

From U.S.A. and Canada (24 hours, 7 days a week)
(800) SMC-4-YOU; (949) 707-2400; (949) 707-2460 (Fax)
From Europe (8:00 AM - 5:30 PM UK Greenwich Mean Time)
44 (0) 1188 748740; 44 (0) 1189 748741 (Fax)

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european.techsupport@smc-europe.com
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http://www.smc.com/support.html
World Wide Web:
http://www.smc.com/
FTP Site:
ftp.smc.com

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UK:	44 (0) 1188 748700;	Fax 44 (0) 1189 748701
Southern Europe:	33 (1) 41.18.68.68;	Fax 33 (1) 41.18.68.69
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